|       |               | Index of Claims |          |           |       |           |           |          |          |              | L               | Application No. |           |                         |          |           |                       |                |              | Applicant(s)  Art Unit |                     |           |          |           |              |              | ·                   |           |           |          |           |          |           |           |                   |
|-------|---------------|-----------------|----------|-----------|-------|-----------|-----------|----------|----------|--------------|-----------------|-----------------|-----------|-------------------------|----------|-----------|-----------------------|----------------|--------------|------------------------|---------------------|-----------|----------|-----------|--------------|--------------|---------------------|-----------|-----------|----------|-----------|----------|-----------|-----------|-------------------|
|       |               | 1               | R        | lej       | ect   | lec       | d         |          | •        |              |                 | (Thi            | rou<br>Ca | gh n                    | um       | era       | 1)                    | ]              | N            | N                      | on-                 | Ele       | cte      | d         |              | A            |                     | A         | ψp        | ea       | <br> <br> |          | _!_       |           |                   |
|       | iaim E        |                 | 4        | Allowed   |       |           |           |          | +        |              | Restricted      |                 |           | 1                       |          |           | ı                     | <b>l</b> r     | Interference |                        | e                   |           | 0        | Objected  |              |              |                     |           |           |          |           |          |           |           |                   |
| Cle   | im            |                 | Date     |           |       | ale       | -         |          |          |              | Cla             |                 | ilm       |                         |          |           |                       | le_            |              |                        |                     | Cla       |          | im        | Г,           | _            | Date                |           |           |          | _         |          |           |           |                   |
| Flnal | Original      | 8/12/03         |          |           |       |           |           |          |          |              |                 |                 | Eg.       | Original                |          |           |                       |                |              |                        |                     |           |          | Final     | Oniginal     |              |                     |           |           |          |           |          |           |           |                   |
|       | 1             | H               | _        | ╀         | ╁     | ╁         | $\dashv$  | -        | -        | H            | Н               | ┝               | $\dashv$  | न्                      | $\dashv$ | ┥         | +                     | ╁              | +            | H                      | $\dashv$            | $\dashv$  | -        | $\dashv$  | <b>间</b>     |              | -                   | $\exists$ |           |          | 1         | -        | $\exists$ | $\dashv$  |                   |
|       | 4             |                 |          | I         | T     | 1         | $\Box$    |          |          |              |                 | F               | $\Box$    | \$2<br>\$3              |          | $\Box$    | 7                     |                | L            |                        | $\Box$              | $\exists$ |          | - 1.      | 102          |              |                     | $\Box$    | $\dashv$  | $\Box$   | $\exists$ |          |           | $\exists$ |                   |
|       | 1             | -               | _        | ╀         | ╁     | +         | -         |          | $\vdash$ | <del> </del> | $\vdash \vdash$ | <b>-</b>        |           | <del>33</del>           | H        | $\dashv$  | +                     | +              | $\vdash$     | $\vdash$               | +                   | $\dashv$  | $\vdash$ | $\dashv$  | (03)<br>104  | H            | $\dashv$            | $\dashv$  | -         | $\dashv$ | $\dashv$  | $\dashv$ | $\exists$ | ㅓ         |                   |
|       | 1             |                 |          | L         |       | #         | $\exists$ |          |          |              |                 |                 | $\Box$    | <b>54</b><br><b>5</b> 5 |          | コ         | $\downarrow$          | 1              |              | 口                      | $\rightrightarrows$ | $\exists$ |          |           | 105          | 口            | $\rightrightarrows$ | コ         | $\exists$ | 口        | $\exists$ | $\Box$   | 耳         | $\exists$ |                   |
|       | 1             | Н               | _        | ╀         | +     | +         | $\dashv$  | $\dashv$ | -        | $\vdash$     | $\vdash$        | ⊢               | -         | 56<br>57                | Н        | +         | +                     | +              | ╁            | $\vdash$               | +                   | $\dashv$  | -        | $\dashv$  | 106<br>(107) | Н            | $\dashv$            | $\dashv$  | $\dashv$  | $\dashv$ | $\dashv$  |          | $\dashv$  | $\dashv$  |                   |
|       | 8             |                 |          | t         | 土     | 1         |           | ╗        |          |              |                 | L               | 力         | 58<br>59                |          | コ         | 士                     | 土              |              |                        | $\exists$           |           |          |           | 108          | 口            | コ                   | $\exists$ | コ         | コ        | コ         |          | コ         | コ         |                   |
|       | 10            | L               |          | Ļ         | +     | 4         | -         | _        | <u> </u> | _            | Н               | -               |           | 59<br>(EA)              | Ц        | -         | 4                     | +              | ╀            | Н                      |                     |           | $\vdash$ | $\dashv$  | 109          | Н            | -                   | -         | -         |          | $\dashv$  |          | _         | $\dashv$  |                   |
|       | 计             | Н               |          | ╁         | +     | $\dagger$ | ┪         | ㅓ        | $\vdash$ | $\vdash$     | H               | ·               | _         | 60)<br>(61)             | H        | +         | 1                     | +-             |              |                        | $\exists$           |           | E        |           | 110          |              |                     | $\exists$ |           |          |           |          |           |           |                   |
|       | 13            |                 |          | T         | I     | 1         | コ         |          | Ŀ        |              |                 |                 |           | 6                       |          | $\Box$    | 1                     | $\blacksquare$ |              |                        | $\Box$              | $\Box$    | F        |           | 112          | П            | $\neg$              | $\exists$ | $\Box$    | $\Box$   | $\Box$    |          |           | $\Box$    |                   |
|       | 13            |                 | ┝        | ╁         | ╁     | +         | ┪         | ᅱ        | -        | -            | Н               | ┝               | $\dashv$  | 64                      | Н        | $\dashv$  | +                     | ╅╴             | +-           | Н                      | ┪                   | $\dashv$  | ┢        |           | 113<br>114   | Н            | $\dashv$            | $\dashv$  | $\dashv$  | $\dashv$ | $\dashv$  | -        |           | Н         |                   |
|       | 15            | $\bar{\Sigma}$  |          | L         | 1     | 1         |           |          |          |              |                 |                 |           | 68                      |          |           | 1                     |                | 上            |                        | $\Box$              |           |          | 7         | (115)        |              |                     | $\Box$    |           |          |           |          |           |           | ı                 |
|       | 15            | -               | -        | ╀╌        | +     | +         | 4         | -        | _        | ├            | Н               | -               | $\dashv$  | 66<br>67                | Н        | +         | +                     |                | ╀            | Н                      | $\dashv$            | ┥         | -        |           | 116<br>1117  | Н            | $\dashv$            | ┥         | $\dashv$  | $\dashv$ | $\dashv$  | Н        | $\dashv$  | $\dashv$  |                   |
|       | 18            | 7               |          | t         | $\pm$ | 1         | 士         |          |          |              |                 |                 |           | 68                      |          |           | _                     | 土              |              |                        |                     |           |          |           |              |              |                     | コ         |           |          |           |          |           |           |                   |
|       | 19 20         |                 |          | -         | 1     | +         | $\dashv$  |          | _        | _            | Н               | -               |           | 6<br>7                  | Ц        | -         | +                     | 4-             | +            | Н                      | -                   | $\dashv$  | -        | $\dashv$  | 119<br>120   | Н            | $\dashv$            | $\dashv$  | $\dashv$  | $\dashv$ | -         | -        | $\dashv$  | $\dashv$  |                   |
|       | <del>21</del> |                 | -        | t         | 十     | $\dagger$ | +         | -        | -        |              | Н               | F               |           | 76                      |          |           | +                     | _ _            | 1            |                        | $\exists$           | ╛         | E        |           | 121          |              |                     | ゴ         |           |          |           |          |           |           |                   |
|       | 22            |                 |          | L         | Ţ     | 7         | $\Box$    |          |          |              | П               | F               |           | (72)                    |          | $\Box$    | 7                     | 1              | -            | Н                      |                     | 4         | L        | -         | 122<br>123   | Н            |                     | $\dashv$  | $\dashv$  | _        |           | -        | $\vdash$  | -         |                   |
|       | 23<br>24      |                 | -        | ╁         | ╁     | +         | ┥         | -        | $\vdash$ | $\vdash$     | Н               | <br> -          | -1        | 73)                     | Н        |           | +                     | ╫              | ╁╴           | Н                      |                     | ┥         |          | $\exists$ | 124          |              |                     |           |           |          |           |          |           |           |                   |
|       | 25            |                 |          | L         | 1     | 7         | $\exists$ |          |          |              |                 | F               |           | 73<br>(76)              |          | $\exists$ | 1                     | 1              | T            |                        | $\exists$           | 4         | F        | $\Box$    | 125          |              |                     | $\dashv$  | Н         |          |           |          |           |           |                   |
|       | 26<br>21      | H               | -        | ╁         | +     | +         | ᅱ         | -        | ┝        | -            | Н               | <b> </b> -      | $\dashv$  | <u>77</u>               | Н        | $\dashv$  | +                     | ╁              | ╁            | Н                      | 1                   | ᅥ         | H        | $\dashv$  | 126<br>127   |              |                     | $\exists$ |           |          |           |          |           |           |                   |
|       | 28            |                 |          | T         | 1     | 1         | コ         |          |          |              |                 |                 |           | 78                      |          | $\Box$    | #                     | #              | 1            | 口                      | $\Box$              | $\Box$    | F        | $\Box$    | 128          | П            | 口                   | $\Box$    | П         | П        |           | П        | П         | $\Box$    |                   |
|       | 29<br>30      | $\vdash$        | H        | ╀         | +     | ╁         | $\dashv$  | 4        | -        | -            | Н               | ┞               | $\dashv$  | 79<br>80                | Н        | $\dashv$  | +                     | +              | 十            | H                      | ╣                   | $\dashv$  | +        | -         | 129<br>130   | Н            | Н                   | $\dashv$  | Н         | Н        | Н         | H        | Н         | Н         |                   |
|       | 31            |                 |          | t         | 士     | 1         |           |          |          |              |                 |                 |           | (8 <u>1)</u><br>82      |          |           | 士                     | #              | 丰            | 口                      | コ                   | ゴ         |          | コ         | 131          |              |                     |           |           |          | 口         |          |           |           |                   |
|       | 32<br>33      |                 | L        | 1         | 1     | 4         | 4         | 4        | F        | F            | H               | -               | $\dashv$  | 82<br>(83)              | Н        | -         | 4                     | +              | +            | Н                      |                     | 4         | -        |           | 132<br>133   |              | H                   | Н         | Н         | -        | Н         | H        | ┝         | H         | ļ.                |
|       | 3             | $\Gamma$        | -        | t         | 士     | $\dagger$ | $\dashv$  |          |          |              | H               | -               |           | 84                      |          |           | 士                     | 1              | $\pm$        |                        |                     | ゴ         | E        |           | 134          |              |                     |           |           |          |           |          |           |           | 1                 |
|       | 35            |                 |          | Γ         | T     | 1         | $\Box$    |          |          |              | П               | [               |           | 85                      | П        | $\Box$    | $\operatorname{\Box}$ | T              | F            |                        | 4                   | $\dashv$  | F        | $\dashv$  | 135<br>136   |              |                     |           |           | -        |           | Step 8   | H         | ~3        | المتاشية المراهدة |
|       | 36<br>37      |                 | $\vdash$ | ╀         | +     | +         | ┥         | _        | ⊢        | 1-           | H               | ∣ ŀ             | $\dashv$  | 86<br>87                | Н        | $\vdash$  | +                     | +              | ╁╴           | Н                      | -                   | $\dashv$  | -        | -         | 137          |              | H                   |           |           |          |           |          |           |           | i                 |
|       | 38            |                 |          | T         | 1     | 1         | コ         |          |          |              |                 |                 |           | 88                      |          |           | $\sqsupset$           | #              | 1            |                        | $\square$           |           | F        | $\exists$ | 138          |              | П                   |           |           |          |           |          | _         |           | <b> </b> _        |
|       | 39<br>40      | ┝               | ┝        | ╀         | ╁     | +         | $\dashv$  |          | -        | ╀            | H               | -               |           | 89<br>90                | H        | Н         | +                     | +              | ╁            | H                      | H                   | $\dashv$  | H        | $\dashv$  | 139<br>140   |              |                     |           | H         |          |           |          |           |           | 1                 |
|       | 41            |                 |          | İ         | 1     | 1         | ╛         |          |          |              |                 |                 |           | 91                      |          |           | コ                     | 1              | 工            |                        |                     |           |          | 口         | 141          |              |                     |           |           |          |           | Г        |           |           | }                 |
|       | 42            |                 | F        | F         | T     | +         | $\neg$    |          | L        | <u> </u>     | $\vdash$        | F               |           | 92<br>93                | $\vdash$ | $\dashv$  | 4                     | +              | +            | -                      | Н                   | Н         | -        |           | 142<br>143   |              | $\vdash$            | -         | -         | $\vdash$ |           | $\vdash$ | 1         | -         | 1                 |
|       | 44            |                 | -        | $\dagger$ | +     | $\dagger$ | _         |          |          | T            |                 | -               |           | 94                      |          | H         | _                     | 士              | 士            |                        |                     |           | L        | 口         | 144          | $oxed{\Box}$ |                     |           |           |          |           |          |           |           | 1                 |
|       | 45            | П               | F        | T         | Ŧ     | 7         | コ         |          |          |              |                 | -               |           | 95                      | E        | П         | 4                     | Ţ              | F            | F                      | П                   | П         | F        | $\dashv$  | 145<br>146   |              | $\vdash$            | -         | -         | -        | -         | +        | -         | ╌         | 1                 |
|       | 46            | 1-              | -        | ╁         | +     | +         | ┥         | _        | -        | 十            | ┢               | ╽┝              |           | 96<br>97                | $\vdash$ | Н         | 十                     | +              | +            | $\vdash$               | H                   | H         |          |           | 147          | Π            |                     |           |           |          |           |          | 上         |           | 1                 |
|       | 48            |                 |          | #         | #     | 1         | コ         |          |          | L            |                 |                 | _         | 98                      | 匚        | 口         | コ                     | 7              | T            |                        | П                   | 口         | F        | $\Box$    | 148<br>149   |              | F                   | F         | Γ         | F        | F         | F        | ļΞ        | -         | -                 |
|       | 49<br>50      | $\vdash$        | -        | ╀         | +     | 4         | ᅱ         | <u> </u> | ╀        | ╀            | $\vdash$        |                 | _         | (99)<br>100             |          | Н         | +                     | ╁              | +-           | +-                     | Н                   | Н         | ╁        |           | 150          |              |                     |           | 1         | -        | -         | 1        | T         | t         | 1                 |

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